DOCUMENT RESUME

ED 329 159 HE 024 259

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TITLE Race/Ethnicity Trends in Degrees Conferred by Institutions of Higher Education: 1978-79 through 1988-89. E.D. TABS.
INSTITUTION National Center for Education Statistics (ED), Washington, DC.
REPORT NO NCES-91-212
PUB DATE Jan 91
NOTE 31p.; Data Series: DR-IPEDS-88/89-7.1.
PUB TYPE Statistical Data (110)

EDRS PRICE MF01/PC02 Plus Postage.
DESCRIPTORS *Academic Achievement; Bachelors Degrees; Data Collection; *Degrees (Academic); Doctoral Degrees; Ethnic Groups; Females; Higher Education; Longitudinal Studies; Males; Masters Degrees; Minority Groups; National Surveys; Postsecondary Education; Statistical Data; Statistical Surveys

ABSTRACT

This report details information on the number of degrees conferred by the nation's postsecondary education institutions. The data are from the Integrated Postsecondary Education Data System (IPEDS) 1988-89 Completions Survey. Among the findings are the following: (1) the rate of growth in degrees conferred to females between 1986-87 and 1988-89 exceeded that for males at all levels of awards; (2) women accounted for a higher proportion of associate degrees (57.5% of 429,946) than their share of any other award level; (3) education and business management, with 82,238 and 73,154 awards respectively, accounted for about 50% of the total master's degrees awarded in 1988-89; (4) the number of doctoral degrees awarded in 1988-89 increased 2.4% annually from 1986-87 to 35,692, with over half the increase attributed to nonresident aliens; (5) in 1988-89, the number of bachelor's degrees awarded (1,015,000) by higher education institutions exceeded the 1 million mark for the first time in the nation's history and represented a 2.4% increase over 1986-87; and (6) the most prevalent fields of study among bachelor's degree recipients in 1988-89 were business and management (246,659), social sciences (107,714), education (96,988), engineering (85,273), and health professions (59,111). No other field of study exceeded 50,000 bachelor's degrees in 1988-89. (GLR)

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Race/Ethnicity Trends in Degrees Conferred by Institutions of Higher Education: 1978–79 through 1988–89

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Race/Ethnicity Trends in Degrees Conferred by Institutions of Higher Education: 1978–79 through 1988–89

William H. Freund
Postsecondary Education Statistics Division

Data Series:
DR–IPEDS–88/89–7.1

U.S. Department of Education
Office of Educational Research and Improvement NCES 91-212

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January 1991

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HIGHLIGHTS

The National Center for Education Statistics has released information on the number of degrees conferred by the nation's postsecondary education institutions. The data are from the Integrated Postsecondary Education Data System (IPEDS) 1988-89 Completions Survey. The survey collects information on degrees conferred by level of award (associate, bachelor's, master's, doctorate, first-professional), race/ethnicity and gender of recipients, and major field of study. This ED-TAB presents information on institutions of higher education, which are accredited by an agency recognized by the Secretary of Education.

Highlights from the survey for institutions of higher education include the following:

- The rate of growth in degrees conferred to females between 1986-87 and 1988-89 exceeded that for males at all levels of awards (table 1).

- Women accounted for a higher proportion of associate degrees (57.5 percent of 429,946) than their share of any other award level.

- In 1988-89, the number of bachelor's degrees awarded by higher education institutions exceeded the 1 million mark for the first time in the nation's history. The 1.015 million degrees awarded represents a 2.4 percent increase over 1986-87.

- Bachelor's degrees awarded to black non-Hispanics increased 2.6 percent between 1986-87 and 1988-89 from 56,555 to 58,016. This increase was solely due to increases in the number of bachelor's degrees awarded to black females. The number of degrees awarded to black males declined slightly from 22,499 in 1986-87 to 22,365 in 1988-89 (table 3).

- The most prevalent fields of study among bachelor's degree recipients in 1988-89 were business and management (246,659), social sciences (107,714), education (96,988), engineering (85,273), and health professions (59,111). No other field of study exceeded 50,000 awards in 1988-89 (table 8).

- In 1988-89, the number of master's degrees increased nearly 20,000 over 1986-87 and surpassed the 300,000 mark for the first time since 1978-79. All racial/ethnic groups contributed to the increase (table 1).

- Education and business and management, with 82,238 and 73,154 awards respectively, accounted for about 50 percent of the total master's degrees awarded in 1988-89 (table 8).

- The number of doctoral degrees awarded in 1988-89 increased 2.4 percent annually from 1986-87 to 35,692 (table 8). Over half of the increase is attributable to the growth in awards to nonresident aliens (table 5).

- The number of first-professional degrees declined slightly from 71,617 in 1986-87 to 70,758 in 1988-89. Decreases in dentistry (down 492), veterinary medicine (down 73), general law (down 489), and general theological professions (down 513) were not totally offset by increases in the other first-professional categories.

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SURVEY METHODOLOGY

Scope

The 1988-89 Completions Survey was mailed to 6,837 postsecondary education institutions. The C1 survey form was mailed to 2,663 schools offering at least a bachelor's degree and the C2 survey form was sent to 2,845 schools offering a degree or certificate of at least 2 years but less than 4 years. The C3 survey form was mailed to 1,329 schools offering awards of less than 2 years, which included 301 public institutions, and a sample of 1,028 private nonprofit and private for profit institutions.

The forms were mailed to all postsecondary institutions in July 1989. The survey results were collected from October 1989 through March 1990. During this time period 311 institutions were deleted from the universe (C1 = 68, C2 = 105, C3 = 138). The deletions (out-of-scope) resulted from formal notification by IPEDS state coordinators, the U.S. Department of Education eligibility notices, and from followup telephone calls. Included in the deletions were schools that had closed, did not offer postsecondary programs, or that were identified as duplicates on the file. After deletions, 6,526 institutions remained in-scope. These included both accredited and non-accredited schools.

Data in this report, a subset of the above counts, are for institutions of higher education — those institutions accredited by an agency recognized by the U.S. Secretary of Education. These institutions (formerly known as HEGIS institutions) were surveyed on a census basis and the overall response rate was 88.1 percent.

Followup

Followup for nonresponse began in November 1989 and was conducted by letter and telephone. The Computer Assisted Telephone Interview (CATI) system was used to solicit data from the nonrespondents in the sample of private, less- than- 2-year schools that received the C3 survey. Schools responding through CATI were asked to provide only the <u>total</u> number of completions, by award level and sex. Race data were not requested.

Editing

During editing, all forms were checked for CIP code validity and addition errors. Total lines were generated and compared to the reported totals for each 2-digit program category. If these totals were within pre-established ranges, the generated total replaced the reported total. If the difference appeared larger than a simple arithmetic error, the institution was contacted to resolve the discrepancy.

The data for each institution were also checked for consistency with its prior year's response, when available. The institution was contacted for verification when data appeared inconsistent.

The overall response rate was calculated as the ratio of the number of completed survey forms divided by the number of in-scope schools; i.e., the number mailed minus the number determined to be out-of-scope. Any institution was considered a respondent if it supplied total awards by sex.

Imputations

Two stages of imputations had to be performed for the higher education data contained in this report. In the first stage, 1986-87 survey responses were used when available for total nonrespondents to the 1988-89 survey (11.9 percent of the institutions). This was done because 1986-87 data was the most recent racial/ethnic information available. In those instances where 1986-87 completions data were unavailable, ratio estimates based on fall enrollments by level and control were used. Thus, data for approximately 10 percent of the institutions may be up to 2 years old. After this part of the imputations was completed, only three institutions were left without any information. All three were private institutions; two of the three were private 2-year institutions; and the third was a 4-year private proprietary institution.

The second stage imputation dealt with item nonresponse. In particular, some institutions were not able to completely report the race/ethnicity of award recipients. In these cases, the unknown racial/ethnic counts were proportionately distributed among the known U.S. totals of racial/ethnic categories by 2-digit program areas. The number of awards distributed in this manner were 27,696 associate degrees; 21,224 bachelor's degrees; 14,871 master's degrees; 1,138 doctoral degrees; and 1,833 first-professional degrees. These represented 6.4, 2.1, 4.8, 3.2, and 2.6 percent respectively of total awards for Associate, Bachelor's, Master's, Doctoral and First-professional awards.

There were some institutions which could not report the field of study and race/ethnicity of some award recipients. These data (5,264; 2,428; 890; and 67 degrees respectively for associate's, bachelor's, master's, and doctoral awards) were removed from the analysis. Thus, the numbers in this ED-TAB are slight undercounts of actual awards at these degree levels.

ACKNOWLEDGMENTS

The author is grateful to Thomas Snyder and Gerald Malitz of the National Center for Education Statistics for their helpful comments on an earlier draft of this ED-TAB. Valuable comments were also received from Charles Anderson, Advisory Council of Education; and Enid Jones, American Association of Community and Junior Colleges.

The tables for this publication were prepared by Paulette Vanderhorst, NCES, with technical assistance from Patricia Brown, NCES.

Table 1.—Degrees conferred in institutions of higher education, by sex and level of degree: 1978–79 through 1988–89.

Sex and level of degree	Year of award									
	1978–79		1980–81		1984–85		1986–87		1988–89	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Total	1,319,100	100.0	1,333,162	100.0	1,781,911	100.0	1,822,550	100.0	1,860,507	100.0
Men	701,701	53.2	690,080	51.8	874,771	49.1	881,457	48.4	880,800	47.3
Women	617,399	46.8	643,082	48.2	907,140	50.9	941,093	51.6	979,707	52.7
Associate	---	---	---	---	429,815	100.0	436,299	100.0	429,946	100.0
Men	---	---	---	---	190,409	44.3	190,832	43.7	182,909	42.5
Women	---	---	---	---	239,406	55.7	245,467	56.3	247,037	57.5
Bachelor's	916,226	100.0	934,800	100.0	968,311	100.0	991,260	100.0	1,015,239	100.0
Men	472,887	51.6	469,625	50.2	476,148	49.2	480,780	48.5	481,687	47.4
Women	443,339	48.4	465,175	49.8	492,163	50.8	510,480	51.5	533,552	52.6
Master's	301,707	100.0	294,183	100.0	280,421	100.0	289,341	100.0	308,872	100.0
Men	153,004	50.7	145,666	49.5	139,417	49.7	141,264	48.8	148,486	48.1
Women	148,703	49.3	148,517	50.5	141,004	50.3	148,077	51.2	160,386	51.9
Doctoral	32,664	100.0	32,839	100.0	32,307	100.0	34,033	100.0	35,692	100.0
Men	23,477	71.9	22,595	68.8	21,296	65.9	22,059	64.8	22,651	63.5
Women	9,187	28.1	10,244	31.2	11,011	34.1	11,974	35.2	13,041	36.5
First professional	68,503	100.0	71,340	100.0	71,057	100.0	71,617	100.0	70,758	100.0
Men	52,333	76.4	52,194	73.2	47,501	66.8	46,522	65.0	45,067	63.7
Women	16,170	23.6	19,146	26.8	23,556	33.2	25,095	35.0	25,691	36.3

--- Data not available until 1984–85

NOTE: Data for 1978–79 exclude U.S. Service Schools.

SOURCE: U.S. Department of Education, Office for Civil Rights, "Data on Earned Degrees Conferred by Institutions of Higher Education by Race, Ethnicity, and Sex," various years; and National Center for Education Statistics, Higher Education General Information Survey, various years, and Integrated Postsecondary Education Data System, various years.

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Table 2.--Degrees conferred in institutions of higher education, by year, race/ethnicity, and level of award: 1978-79 through 1988-89

Degrees and race/ethnicity	1978-79		1980-81		1984-85		1986-87		1988-89	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Total	1,319,100	100.0	1,333,162	100.0	1,781,911	100.0	1,822,550	100.0	1,860,507	100.0
White non-Hispanic	1,137,226	86.2	1,138,994	85.4	1,492,230	83.7	1,519,632	83.4	1,538,998	82.7
Black non-Hispanic	84,221	6.4	82,002	6.2	111,386	6.3	110,359	6.1	110,675	5.9
Hispanic	27,295	2.1	30,290	2.3	54,706	3.1	56,180	3.1	60,243	3.2
Asian or Pacific Islander	23,337	1.8	27,409	2.1	46,013	2.6	56,337	3.1	65,670	3.5
American Indian/Alaskan Native	4,723	0.4	4,949	0.4	8,822	0.5	8,679	0.5	8,849	0.5
Nonresident alien	42,298	3.2	49,518	3.7	68,754	3.9	71,363	3.9	76,072	4.1
Associate	---	---	---	---	429,815	100.0	436,299	100.0	429,946	100.0
White non-Hispanic	---	---	---	---	355,343	82.7	361,819	82.9	353,122	82.1
Black non-Hispanic	---	---	---	---	35,791	8.3	35,457	8.1	34,411	8.0
Hispanic	---	---	---	---	19,407	4.5	19,345	4.4	20,294	4.7
Asian or Pacific Islander	---	---	---	---	9,914	2.3	11,794	2.7	12,433	2.9
American Indian/Alaskan Native	---	---	---	---	2,953	0.7	3,196	0.7	3,318	0.8
Nonresident alien	---	---	---	---	6,407	1.5	4,688	1.1	6,368	1.5
Bachelors	916,226	100.0	934,800	100.0	968,311	100.0	991,260	100.0	1,015,239	100.0
White non-Hispanic	799,617	87.3	807,319	86.4	826,106	85.3	841,820	84.9	858,186	84.5
Black non-Hispanic	60,125	6.6	60,673	6.5	57,473	5.9	56,555	5.7	58,016	5.7
Hispanic	20,029	2.2	21,832	2.3	25,874	2.7	26,990	2.7	29,800	2.9
Asian or Pacific Islander	15,336	1.7	18,794	2.0	25,395	2.6	32,618	3.3	38,219	3.8
American Indian/Alaskan Native	3,404	0.4	3,593	0.4	4,246	0.4	3,971	0.4	4,046	0.4
Nonresident alien	17,715	1.9	22,589	2.4	29,217	3.0	29,306	3.0	26,972	2.7
Masters	301,707	100.0	294,183	100.0	280,421	100.0	289,341	100.0	308,872	100.0
White non-Hispanic	249,051	82.5	241,216	82.0	223,628	79.7	228,870	79.1	241,607	78.2
Black non-Hispanic	19,993	6.6	17,133	5.8	13,939	5.0	13,867	4.8	14,076	4.6
Hispanic	5,544	1.8	6,461	2.2	6,864	2.4	7,044	2.4	7,270	2.4
Asian or Pacific Islander	5,985	2.0	6,282	2.1	7,782	2.8	8,558	3.0	10,714	3.5
American Indian/Alaskan Native	999	0.3	1,034	0.4	1,256	0.4	1,104	0.4	1,133	0.4
Nonresident alien	20,135	6.7	22,057	7.5	26,952	9.6	29,898	10.3	34,072	11.0
Doctoral	32,664	100.0	32,839	100.0	32,307	100.0	34,033	100.0	35,692	100.0
White non-Hispanic	26,128	80.0	25,908	78.9	23,934	74.1	24,435	71.8	24,895	69.7
Black non-Hispanic	1,267	3.9	1,265	3.9	1,154	3.6	1,060	3.1	1,071	3.0
Hispanic	439	1.3	456	1.4	677	2.1	750	2.2	625	1.8
Asian or Pacific Islander	811	2.5	877	2.7	1,106	3.4	1,097	3.2	1,337	3.7
American Indian/Alaskan Native	104	0.3	130	0.4	119	0.4	104	0.3	84	0.2
Nonresident alien	3,915	12.0	4,203	12.8	5,317	16.5	6,587	19.4	7,680	21.5
First-Professional	68,503	100.0	71,340	100.0	71,057	100.0	71,617	100.0	70,758	100.0
White non-Hispanic	62,430	91.1	64,551	90.5	63,219	89.0	62,688	87.5	61,188	86.5
Black non-Hispanic	2,836	4.1	2,931	4.1	3,029	4.3	3,420	4.8	3,101	4.4
Hispanic	1,283	1.9	1,541	2.2	1,884	2.7	2,051	2.9	2,254	3.2
Asian or Pacific Islander	1,205	1.8	1,456	2.0	1,816	2.6	2,270	3.2	2,967	4.2
American Indian/Alaskan Native	216	0.3	192	0.3	248	0.3	304	0.4	268	0.4
Nonresident alien	533	0.8	669	0.9	861	1.2	884	1.2	980	1.4

--- Data not available until 1984-85

NOTE: Data for 1976-77 and 1978-79 exclude U.S. Service Schools.

SOURCE: U.S. Department of Education, Office for Civil Rights, "Data on Earned Degrees Conferred by Institutions of Higher Education Race, Ethnicity, and Sex," various years; National Center for Education Statistics, Higher Education General Information System, various years, and Integrated Postsecondary Education Data System, various years.

Table 3 --Bachelor's degrees conferred by institutions of higher education, by sex, race/ethnicity, and field of study: 1978–79 through 1988–89

Field of study and race/ethnicity	Men					Women				
	1978–79	1980–81	1984–85	1986–87	1988–89	1978–79	1980–81	1984–85	1986–87	1988–89
All fields, total	472,887	469,625	476,148	480,780	481,687	443,339	465,175	492,163	510,480	533,552
Agriculture and natural resources	16,854	15,154	12,427	10,314	9,295	6,280	6,732	5,588	4,677	4,193
Architecture and environmental design	6,876	6,800	5,946	5,617	5,580	2,397	2,655	3,271	3,333	3,611
Area and ethnic studies	1,059	1,031	1,092	1,249	1,613	1,510	1,554	1,759	2,058	2,336
Business and management	119,799	127,058	126,762	128,920	131,419	52,725	73,799	104,546	112,180	115,240
Communications	13,252	14,179	17,039	18,153	19,263	13,185	17,103	24,508	27,240	29,362
Computer and information sciences	6,246	10,202	24,386	25,866	21,221	2,447	4,918	14,203	13,724	9,416
Education	33,737	27,069	21,146	20,759	21,662	92,049	81,196	66,642	66,324	75,326
Engineering	56,255	67,255	82,095	80,349	73,651	5,171	7,699	12,465	12,748	11,622
Fine and applied arts	15,170	14,624	14,190	13,785	14,558	25,538	25,617	23,161	22,448	23,223
Foreign languages	2,851	2,520	2,606	2,792	2,879	8,967	7,799	7,239	7,405	7,895
Health professions	11,205	10,519	9,534	9,177	8,926	50,880	53,130	53,755	54,036	50,185
Home economics	890	916	1,002	1,115	1,380	17,369	17,454	14,452	13,825	13,337
Law	396	388	445	369	785	274	388	686	808	1,191
Letters	17,675	16,107	15,787	16,525	18,359	24,303	23,921	24,406	26,591	31,375
Library science	30	22	25	20	16	528	353	169	120	106
Life sciences	29,145	24,149	19,905	19,656	17,970	19,649	19,067	18,210	18,464	18,109
Mathematics	6,833	6,342	8,010	8,792	8,221	4,791	4,736	6,875	7,652	7,016
Military sciences	141	293	272	358	378	0	12	26	26	41
Physical sciences	17,641	18,062	16,972	14,372	12,097	5,220	5,888	6,583	5,699	5,107
Psychology	16,399	14,295	12,596	13,328	14,181	25,996	26,538	26,927	29,507	34,335
Public affairs and services	17,907	15,266	13,894	14,151	15,731	20,342	21,045	16,678	17,063	18,320
Social sciences	62,621	56,156	50,789	53,870	59,924	45,379	44,491	40,006	42,302	47,790
Theology	4,387	4,334	4,278	4,330	4,108	1,511	1,473	1,596	1,398	1,214
Interdisciplinary studies	15,518	16,884	14,950	16,913	18,470	16,828	17,607	18,412	20,852	23,202
White, non-Hispanic										
Total	415,301	406,173	405,085	406,751	406,656	384,316	401,146	421,021	435,069	451,530
Agriculture and natural resources	15,755	13,908	11,252	9,406	8,494	5,945	6,326	5,177	4,251	3,754
Architecture and environmental design	5,987	5,778	4,888	4,501	4,448	2,136	2,291	2,759	2,770	2,973
Area and ethnic studies	932	900	874	997	1,237	1,326	1,342	1,368	1,652	1,818
Business and management	106,642	112,267	109,130	111,091	112,938	44,117	61,931	87,785	94,027	94,886
Communications	11,886	12,541	14,940	15,941	16,920	11,532	14,932	21,216	23,552	25,552
Computer and information sciences	5,102	8,622	20,188	20,480	16,314	1,982	3,943	11,133	9,771	6,201
Education	28,893	22,876	18,119	18,050	19,203	80,056	70,848	59,412	60,166	68,949
Engineering	47,363	54,453	66,478	63,608	57,957	4,431	6,395	9,960	9,680	8,552
Fine and applied arts	13,291	12,768	12,257	11,875	12,510	23,356	23,165	20,688	19,796	20,396
Foreign languages	2,325	2,067	2,153	2,287	2,337	7,572	6,547	6,061	6,134	6,441
Health professions	9,991	9,276	8,114	7,790	7,513	45,755	47,514	47,387	47,620	43,498
Home economics	753	745	841	909	1,173	15,466	15,515	12,783	12,163	11,673
Law	350	368	364	334	668	237	363	602	740	1,057
Letters	16,213	14,748	14,277	14,936	16,612	21,940	21,567	21,926	23,887	27,999
Library science	24	18	17	16	12	473	321	156	106	93
Life sciences	25,837	21,085	16,805	16,393	14,634	16,868	16,191	15,002	14,886	14,262
Mathematics	5,963	5,422	6,508	7,216	6,724	4,205	4,023	5,654	6,340	5,763
Military sciences	130	278	259	336	325	0	11	25	24	31
Physical sciences	16,048	16,124	15,050	12,505	10,359	4,602	5,122	5,610	4,654	4,143
Psychology	14,295	12,215	10,866	11,540	12,229	22,290	22,486	23,085	25,474	29,355
Public affairs and services	15,142	12,476	11,225	11,653	12,944	16,546	16,834	13,115	13,548	14,378
Social sciences	54,292	48,509	43,787	46,493	51,657	37,918	37,026	33,330	35,166	39,272
Theology	4,097	3,964	3,836	3,950	3,674	1,414	1,388	1,433	1,286	1,105
Interdisciplinary studies	13,690	14,765	12,857	14,444	15,774	14,149	15,065	15,354	17,376	19,379

See footnotes at end of table.

Table 3.--Bachelor's degrees conferred by institutions of higher education, by sex, race/ethnicity, and field of study: 1978-79 through 1988-89--Continued

Field of study and race/ethnicity	Men					Women				
	1978-79	1980-81	1984-85	1986-87	1988-89	1978-79	1980-81	1984-85	1986-87	1988-89
Black, non-Hispanic										
Total	24,544	24,511	23,018	22,499	22,365	35,581	36,162	34,455	34,056	35,651
Agriculture and natural resources	251	259	256	182	174	95	121	114	117	137
Architecture and environmental design	231	210	215	198	187	85	90	113	79	94
Area and ethnic studies	35	20	82	85	99	49	47	137	116	138
Business and management	6,120	6,503	6,442	6,051	6,051	5,310	6,897	8,557	8,635	9,037
Communications	840	980	1,165	1,125	1,151	1,153	1,425	1,970	2,103	2,051
Computer and information sciences	263	394	1,036	1,329	1,244	242	392	1,107	1,599	1,313
Education	3,055	2,587	1,569	1,348	1,149	8,454	6,907	3,887	2,905	3,084
Engineering	1,531	2,020	2,435	2,580	2,351	225	429	724	921	886
Fine and applied arts	889	811	716	660	648	991	1,024	827	708	732
Foreign languages	86	76	91	87	63	263	217	221	234	256
Health professions	440	436	484	481	462	2,940	3,167	3,352	3,341	3,511
Home economics	82	83	94	98	106	1,113	1,042	858	781	788
Law	28	9	40	14	46	25	13	45	38	81
Letters	776	666	652	625	640	1,416	1,314	1,196	1,197	1,446
Library science	5	2	5	0	1	44	28	11	9	7
Life sciences	1,146	954	806	740	710	1,341	1,315	1,239	1,192	1,234
Mathematics	320	276	373	402	380	332	308	393	444	421
Military sciences	2	5	3	1	31	0	1	1	0	6
Physical sciences	423	613	455	445	371	268	293	374	399	337
Psychology	1,050	1,040	751	683	661	2,164	2,268	1,916	1,852	2,154
Public affairs and services	1,728	1,726	1,532	1,479	1,627	2,767	3,143	2,546	2,459	2,650
Social sciences	4,266	3,696	2,778	2,676	2,874	4,772	4,433	3,322	3,266	3,624
Theology	126	142	156	142	162	30	24	39	35	23
Interdisciplinary studies	851	1,003	882	1,068	1,177	1,502	1,264	1,506	1,626	1,641
Hispanic										
Total	10,354	10,810	12,402	12,864	13,920	9,675	11,022	13,472	14,126	15,880
Agriculture and natural resources	163	181	165	152	158	39	67	77	79	64
Architecture and environmental design	181	203	231	233	233	48	67	104	105	126
Area and ethnic studies	38	41	68	58	61	44	63	100	88	110
Business and management	2,224	2,560	2,988	3,251	3,483	972	1,554	2,783	3,146	3,504
Communications	201	258	358	402	461	208	299	542	609	708
Computer and information sciences	110	193	484	615	571	45	109	342	462	331
Education	948	754	597	518	580	2,081	2,093	1,936	1,705	1,713
Engineering	1,031	1,302	1,935	2,178	2,063	86	131	307	375	395
Fine and applied arts	381	345	371	369	445	366	434	435	482	533
Foreign languages	293	258	237	209	263	762	651	562	599	701
Health professions	222	262	309	255	265	844	891	1,241	1,077	1,121
Home economics	10	17	25	18	32	163	213	221	214	252
Law	9	4	20	11	37	10	6	24	14	20
Letters	258	278	357	343	404	364	416	464	535	725
Library science	0	1	0	0	0	3	0	0	3	2
Life sciences	677	648	681	657	655	432	496	560	602	599
Mathematics	110	113	146	170	189	84	72	109	99	121
Military sciences	2	3	7	12	8	0	0	0	1	4
Physical sciences	260	297	310	287	275	79	108	107	136	109
Psychology	490	490	432	459	541	718	815	899	942	1,232
Public affairs and services	629	590	612	523	643	564	586	602	613	746
Social sciences	1,718	1,549	1,557	1,564	1,876	1,199	1,339	1,289	1,319	1,742
Theology	52	74	86	63	69	19	14	33	18	27
Interdisciplinary studies	347	389	424	517	608	545	598	735	903	995

See footnotes at end of table.

Table 3.--Bachelor's degrees conferred by institutions of higher education, by sex, race/ethnicity, and field of study: 1978-79 through 1988-89--Continued

Field of study and race/ethnicity	Men					Women				
	1978-79	1980-81	1984-85	1986-87	1988-89	1978-79	1980-81	1984-85	1986-87	1988-89
Asian or Pacific Islander										
Total	8,190	10,107	13,554	17,249	19,537	7,146	8,687	11,841	15,369	18,682
Agriculture and natural resources	209	200	141	161	114	114	112	104	122	126
Architecture and environmental design	168	217	188	208	225	58	79	112	157	205
Area and ethnic studies	30	39	41	77	142	61	79	93	137	191
Business and management	1,857	2,121	2,644	2,873	3,869	1,278	1,822	2,630	3,129	4,370
Communications	135	153	204	356	383	135	215	360	563	609
Computer and information sciences	171	410	1,158	1,542	1,466	91	259	886	1,004	889
Education	305	258	240	312	273	480	465	530	780	854
Engineering	1,622	2,699	4,132	5,347	5,770	215	367	881	1,150	1,242
Fine and applied arts	280	289	333	418	474	429	499	576	776	931
Foreign languages	53	39	45	140	144	155	171	165	201	259
Health professions	282	299	298	337	407	805	1,013	1,012	1,240	1,326
Home economics	27	41	19	46	33	355	354	288	377	429
Law	5	2	18	9	26	2	3	10	13	28
Letters	157	167	223	352	425	265	293	362	591	797
Library science	0	0	1	0	1	2	2	0	0	2
Life sciences	821	830	1,022	1,343	1,467	637	659	928	1,277	1,484
Mathematics	168	223	470	540	537	153	168	410	510	497
Military sciences	1	4	3	1	4	0	0	0	0	0
Physical sciences	306	412	504	615	636	119	184	259	303	300
Psychology	293	293	277	417	514	473	546	553	771	1,091
Public affairs and services	204	187	161	196	279	211	229	164	212	248
Social sciences	871	860	1,002	1,448	1,962	731	785	1,032	1,494	2,030
Theology	18	43	54	67	94	18	15	26	25	27
Interdisciplinary studies	207	321	376	444	492	359	368	460	537	747
American Indian/Alaskan Native										
Total	1,730	1,700	1,998	1,819	1,768	1,674	1,893	2,248	2,152	2,278
Agriculture and natural resources	61	81	47	38	45	23	15	23	20	25
Architecture and environmental design	19	20	24	15	28	6	4	11	11	11
Area and ethnic studies	1	3	7	9	7	6	1	9	20	18
Business and management	346	388	495	400	359	159	248	426	383	465
Communications	39	51	61	58	60	30	59	94	74	77
Computer and information sciences	11	17	76	63	60	0	4	63	53	34
Education	197	164	165	124	170	449	405	318	328	367
Engineering	150	173	263	247	239	12	22	50	42	46
Fine and applied arts	74	73	73	82	53	95	114	127	102	75
Foreign languages	7	10	4	10	6	15	15	19	14	30
Health professions	51	39	49	46	48	155	170	224	228	197
Home economics	5	1	5	18	5	74	72	68	101	46
Law	3	1	2	1	4	0	1	2	1	1
Letters	62	44	65	48	67	48	59	96	62	116
Library science	0	1	0	0	0	2	1	0	0	0
Life sciences	97	67	89	79	70	51	70	72	68	77
Mathematics	28	10	36	33	39	13	8	23	20	15
Military sciences	0	1	0	1	0	0	0	0	0	0
Physical sciences	45	44	65	46	45	18	21	33	28	18
Psychology	87	68	75	65	61	90	128	126	121	153
Public affairs and services	83	91	76	78	79	134	133	126	121	151
Social sciences	273	241	229	249	220	224	233	218	215	211
Theology	8	5	10	13	8	3	0	10	2	4
Interdisciplinary studies	83	107	82	96	95	68	110	110	138	141

See footnotes at end of table.

Table 3.--Bachelor's degrees conferred by institutions of higher education, by sex, race/ethnicity, and field of study: 1978-79 through 1988-89--Continued

Field of study and race/ethnicity	Men					Women				
	1978-79	1980-81	1984-85	1986-87	1988-89	1978-79	1980-81	1984-85	1986-87	1988-89
Nonresident alien										
Total	12,768	16,324	20,091	19,598	17,441	4,947	6,265	9,126	9,708	9,531
Agriculture and natural resources	415	525	566	375	310	64	91	93	88	87
Architecture and environmental design	290	372	400	462	459	64	124	172	211	202
Area and ethnic studies	23	28	20	23	67	24	22	52	45	61
Business and management	2,610	3,219	5,063	5,254	4,919	889	1,347	2,365	2,860	2,978
Communications	151	196	311	271	288	127	173	326	339	365
Computer and information sciences	289	566	1,444	1,837	1,566	87	211	672	835	648
Education	339	430	456	407	287	530	478	559	440	359
Engineering	4,558	6,608	6,852	6,389	5,271	202	355	543	580	501
Fine and applied arts	255	338	440	381	428	301	381	508	584	556
Foreign languages	87	70	76	59	66	200	198	211	223	208
Health professions	219	207	280	268	231	381	375	539	530	532
Home economics	13	29	18	26	31	198	258	234	189	149
Law	1	4	1	0	4	0	2	3	2	4
Letters	209	204	213	221	211	270	272	362	319	292
Library science	1	0	2	4	2	4	1	2	2	2
Life sciences	567	565	502	444	434	320	336	409	439	453
Mathematics	244	298	475	431	352	4	157	286	239	199
Military sciences	6	2	0	7	10	0	0	0	1	0
Physical sciences	559	572	588	474	411	134	160	200	179	200
Psychology	184	189	195	164	175	261	295	348	347	350
Public affairs and services	121	196	288	222	159	120	120	125	110	147
Social sciences	1,201	1,301	1,436	1,440	1,335	535	675	815	842	911
Theology	86	106	136	95	101	27	32	55	32	28
Interdisciplinary studies	340	299	329	344	324	205	202	247	272	299

NOTE: Data for 1986-87 include imputations for 2.7 percent of bachelor's recipients whose racial/ethnic backgrounds were not reported. Data for 1978-79 exclude U.S. Service Schools.

SOURCE: U.S. Department of Education, Office for Civil Rights, "Data on Earned Degrees Conferred by Institutions of Higher Education by Race, Ethnicity, and Sex," various years; and National Center for Education Statistics, Higher Education General Information Survey, various years, and Integrated Postsecondary Education Data System, various years.

Table 4.--Master's degrees conferred by institutions of higher education, by sex, race/ethnicity, and field of study: 1978-79 through 1988-89

Field of study and race/ethnicity	Men					Women				
	1978-79	1980-81	1984-85	1986-87	1988-89	1978-79	1980-81	1984-85	1986-87	1988-89
All fields, total	153,004	145,666	139,417	141,264	148,486	148,703	148,517	141,004	148,077	160,386
Agriculture and natural resources	3,187	3,061	2,828	2,460	2,231	807	942	1,073	1,061	1,014
Architecture and environmental design	2,226	2,234	2,124	2,086	2,191	887	919	1,109	1,078	1,187
Area and ethnic studies	359	335	380	457	497	379	383	398	396	481
Business and management	40,381	43,045	45,884	45,219	48,557	9,662	14,496	20,712	22,285	24,597
Communications	1,481	1,448	1,470	1,589	1,710	1,399	1,657	2,051	2,303	2,523
Computer and information sciences	2,408	3,176	4,936	5,985	6,769	572	967	2,006	2,496	2,623
Education	34,968	28,079	20,844	19,635	20,286	76,519	70,301	54,977	55,838	61,952
Engineering	11,289	11,998	18,505	19,808	21,355	950	1,360	2,230	2,850	3,186
Fine and applied arts	3,924	4,056	3,806	3,756	3,598	4,578	4,573	4,743	4,747	4,636
Foreign languages	739	694	550	516	602	1,687	1,410	1,153	1,229	1,309
Health professions	4,494	4,316	4,052	3,885	4,210	10,991	12,199	13,010	14,536	15,045
Home economics	222	252	267	256	311	2,288	2,318	2,092	1,813	1,863
Law	1,392	1,506	1,363	1,423	1,491	255	326	411	521	607
Letters	3,446	3,229	2,680	2,840	3,027	5,437	5,072	4,240	4,394	4,855
Library science	1,159	841	749	796	816	5,237	4,018	3,097	3,018	3,124
Life sciences	4,265	3,654	2,620	2,538	2,484	2,566	2,324	2,390	2,412	2,449
Mathematics	1,982	1,690	1,843	2,022	2,058	1,051	875	988	1,297	1,366
Military sciences	0	0	49	118	0	0	0	1	1	0
Physical sciences	4,416	4,144	4,355	4,220	4,204	990	1,083	1,320	1,410	1,533
Psychology	4,401	3,358	3,042	2,828	2,799	4,329	4,640	5,337	5,296	5,780
Public affairs and services	9,853	8,957	6,704	7,120	7,333	10,693	11,117	10,426	11,403	12,101
Social sciences	8,343	7,442	6,298	6,293	6,493	4,544	4,475	3,925	4,102	4,361
Theology	2,295	2,461	2,521	3,193	3,003	1,103	1,267	1,373	1,648	1,622
Interdisciplinary studies	2,774	2,690	1,547	2,221	2,461	1,779	1,795	1,942	1,943	2,172
White, non-Hispanic										
Total	123,754	115,562	106,059	105,573	109,184	125,297	125,654	117,569	123,297	132,423
Agriculture and natural resources	2,396	2,298	2,005	1,680	1,464	651	785	860	856	758
Architecture and environmental design	1,751	1,667	1,416	1,419	1,461	737	724	862	831	889
Area and ethnic studies	268	260	249	310	358	295	272	259	275	309
Business and management	33,495	35,380	37,256	35,505	38,013	8,044	12,094	17,407	18,077	19,432
Communications	1,258	1,183	1,167	1,233	1,329	1,196	1,373	1,665	1,839	1,999
Computer and information sciences	1,827	2,153	3,052	3,475	3,809	434	665	1,251	1,578	1,481
Education	29,306	23,291	17,047	16,431	17,046	64,662	59,488	46,255	48,061	53,781
Engineering	9,268	9,177	11,012	11,742	12,086	708	970	1,588	2,006	2,120
Fine and applied arts	3,500	3,534	3,203	3,132	2,950	4,166	4,090	4,031	3,973	3,710
Foreign languages	562	541	390	351	399	1,365	1,095	832	828	872
Health professions	3,714	3,443	3,170	3,048	3,203	9,717	10,732	11,395	12,676	13,032
Home economics	184	193	219	206	240	1,985	1,998	1,742	1,525	1,580
Law	1,057	1,129	927	809	751	179	237	282	291	299
Letters	3,053	2,768	2,216	2,315	2,461	4,784	4,440	3,600	3,728	4,062
Library science	1,030	733	652	679	708	4,181	3,591	2,746	2,639	2,736
Life sciences	3,709	3,223	2,125	2,038	1,882	2,152	1,987	1,954	1,906	1,909
Mathematics	1,479	1,212	1,170	1,247	1,220	873	678	703	866	903
Military sciences	0	---	42	101	0	0	---	0	0	0
Physical sciences	3,561	3,255	3,144	3,023	2,888	812	860	1,001	1,039	1,074
Psychology	3,265	2,945	2,600	2,471	2,402	3,813	4,071	4,618	4,622	5,018
Public affairs and services	8,177	7,212	5,254	5,465	5,602	8,230	9,223	8,595	9,402	9,937
Social sciences	6,442	5,571	4,326	4,316	4,457	3,671	3,579	3,007	3,125	3,221
Theology	2,032	2,119	2,106	2,658	2,376	1,025	1,163	1,223	1,450	1,391
Interdisciplinary studies	2,420	2,275	1,311	1,919	2,079	1,617	1,539	1,693	1,704	1,910

See footnotes at end of table.

Table 4.--Master's degrees conferred by institutions of higher education, by sex, race/ethnicity, and field of study: 1978-79 through 1988-89--Continued

Field of study and race/ethnicity	Men					Women				
	1978-79	1980-81	1984-85	1986-87	1988-89	1978-79	1980-81	1984-85	1986-87	1988-89
Black, non-Hispanic										
Total	7,045	6,158	5,200	5,151	5,200	12,948	10,975	8,739	8,716	8,876
Agriculture and natural resources	61	53	50	63	41	18	20	25	16	12
Architecture and environmental design	81	74	80	48	54	34	48	43	29	44
Area and ethnic studies	4	2	19	10	16	11	12	22	29	14
Business and management	1,531	1,554	1,574	1,637	1,746	598	805	1,027	1,173	1,331
Communications	66	65	63	83	82	83	122	120	142	133
Computer and information sciences	43	52	108	136	132	22	18	72	86	86
Education	2,735	2,061	1,325	1,127	1,105	8,090	6,584	4,487	4,123	4,167
Engineering	219	222	300	351	315	22	38	60	98	109
Fine and applied arts	134	149	107	129	103	120	118	122	111	94
Foreign languages	15	10	9	9	8	30	23	17	20	13
Health professions	217	197	179	139	179	584	692	640	717	675
Home economics	11	11	15	12	12	110	121	107	78	55
Law	22	27	40	26	43	5	11	21	18	30
Letters	90	72	62	68	73	237	178	109	114	103
Library science	45	33	24	25	25	260	183	148	121	104
Life sciences	95	82	67	84	61	122	89	84	91	67
Mathematics	35	33	34	47	33	36	34	19	29	28
Military sciences	0	---	3	7	0	0	---	1	1	0
Physical sciences	67	79	61	48	59	19	28	28	36	23
Psychology	175	164	146	123	126	301	260	280	275	288
Public affairs and services	820	713	592	604	602	1,819	1,180	1,008	1,114	1,186
Social sciences	415	311	234	226	200	333	304	188	190	197
Theology	49	58	61	86	103	23	13	32	35	43
Interdisciplinary studies	115	136	47	63	82	71	94	79	70	74
Hispanic										
Total	2,775	3,085	3,059	3,330	3,360	2,769	3,376	3,805	3,714	3,910
Agriculture and natural resources	28	50	48	30	39	6	13	16	14	17
Architecture and environmental design	53	52	70	68	68	7	13	23	25	22
Area and ethnic studies	15	18	28	30	21	16	21	26	23	36
Business and management	499	676	812	954	982	113	193	363	483	599
Communications	20	24	22	31	24	13	19	49	39	46
Computer and information sciences	13	45	65	98	107	11	15	29	34	45
Education	943	869	668	601	591	1,612	1,962	1,851	1,631	1,566
Engineering	186	251	299	456	404	10	27	41	73	78
Fine and applied arts	65	77	78	65	92	50	55	80	77	78
Foreign languages	65	60	49	42	51	136	114	125	120	107
Health professions	70	86	89	72	102	117	165	207	306	296
Home economics	1	5	0	3	12	22	26	40	22	33
Law	24	42	24	30	29	4	10	15	20	12
Letters	55	48	45	57	61	94	83	73	61	96
Library science	18	9	18	14	11	58	49	35	34	50
Life sciences	40	36	48	40	59	28	33	61	46	54
Mathematics	18	31	28	39	20	8	9	21	16	9
Military sciences	0	---	2	5	0	0	---	0	0	0
Physical sciences	41	45	87	85	53	11	10	20	31	24
Psychology	100	78	114	91	108	76	101	159	152	193
Public affairs and services	283	310	221	275	250	266	319	396	353	364
Social sciences	172	181	159	154	148	79	99	113	91	99
Theology	27	36	44	63	74	14	14	18	25	25
Interdisciplinary studies	39	56	41	27	54	18	26	44	38	61

See footnotes at end of table.

Table 4.--Master's degrees conferred by institutions of higher education, by sex, race/ethnicity, and field of study: 1978-79 through 1988-89--Continued

Field of study and race/ethnicity	Men					Women				
	1978-79	1980-81	1984-85	1986-87	1988-89	1978-79	1980-81	1984-85	1986-87	1988-89
Asian or Pacific Islander										
Total	3,324	3,773	4,842	5,238	6,247	2,661	2,509	2,940	3,320	4,467
Agriculture and natural resources	77	50	55	36	31	27	17	20	22	22
Architecture and environmental design	61	75	75	57	73	33	37	41	35	45
Area and ethnic studies	17	11	18	25	24	17	27	30	13	24
Business and management	981	1,161	1,449	1,531	1,886	259	472	621	773	1,076
Communications	23	30	24	29	47	27	36	23	50	52
Computer and information sciences	115	205	414	561	628	34	74	201	273	359
Education	290	291	238	232	278	654	682	563	492	786
Engineering	802	974	1,395	1,552	1,839	48	105	178	205	307
Fine and applied arts	58	68	86	75	83	85	92	142	164	204
Foreign languages	14	7	4	8	10	24	19	24	28	36
Health professions	115	164	174	152	168	258	284	302	337	395
Home economics	3	7	4	5	5	48	56	54	44	49
Law	22	32	34	53	41	4	5	13	25	21
Letters	35	44	55	68	73	85	70	82	91	150
Library science	20	13	9	21	29	577	56	62	72	84
Life sciences	114	62	86	89	108	91	83	93	109	122
Mathematics	67	64	108	116	122	37	33	56	77	64
Military sciences	0	---	0	0	0	0	---	0	0	0
Physical sciences	129	115	154	174	187	31	38	59	67	105
Psychology	38	34	48	35	46	49	43	81	85	91
Public affairs and services	125	149	112	158	186	178	157	159	179	258
Social sciences	164	147	231	152	192	70	86	97	98	137
Theology	18	39	42	70	107	7	16	17	42	41
Interdisciplinary studies	36	31	27	39	84	18	21	22	39	39
American Indian/Alaskan Native										
Total	495	501	583	517	500	504	533	673	587	633
Agriculture and natural resources	5	4	4	4	6	0	3	2	2	0
Architecture and environmental design	2	4	10	7	3	4	1	0	1	6
Area and ethnic studies	1	3	5	4	5	1	3	3	1	2
Business and management	109	128	189	112	125	26	27	82	58	72
Communications	2	3	3	5	3	0	6	8	7	11
Computer and information sciences	6	10	28	20	40	10	2	13	3	3
Education	165	159	139	120	121	286	294	329	256	265
Engineering	22	26	45	58	32	2	5	4	6	5
Fine and applied arts	18	9	17	24	15	13	13	23	23	19
Foreign languages	2	1	1	3	1	1	7	4	1	2
Health professions	19	17	14	12	21	40	37	47	50	64
Home economics	1	1	0	3	1	5	9	11	14	9
Law	4	1	2	3	1	0	0	1	1	3
Letters	10	8	11	11	8	6	10	13	12	18
Library science	2	1	2	1	4	10	16	10	8	15
Life sciences	8	9	8	4	8	8	6	10	7	9
Mathematics	6	6	4	1	5	2	1	3	2	1
Military sciences	0	---	0	0	0	0	---	0	0	0
Physical sciences	26	9	19	7	12	3	2	2	2	6
Psychology	10	13	16	13	13	10	19	21	24	22
Public affairs and services	34	47	33	60	34	47	45	56	84	68
Social sciences	28	28	25	17	31	17	16	18	6	22
Theology	2	1	3	6	4	2	0	2	2	5
Interdisciplinary studies	13	13	5	22	7	11	11	11	17	6

See footnotes at end of table.

Table 4.--Master's degrees conferred by institutions of higher education, by sex, race/ethnicity, and field of study: 1978-79 through 1988-89--Continued

Field of study and race/ethnicity	Men					Women				
	1978-79	1980-81	1984-85	1986-87	1988-89	1978-79	1980-81	1984-85	1986-87	1988-89
Nonresident alien										
Total	15,611	16,587	19,674	21,455	23,995	4,524	5,470	7,278	8,443	10,077
Agriculture and natural resources	620	606	666	647	650	105	104	150	151	205
Architecture and environmental design	278	362	473	487	532	72	96	140	157	181
Area and ethnic studies	54	41	61	78	73	39	48	58	55	96
Business and management	3,766	4,146	4,604	5,480	5,805	622	905	1,212	1,721	2,087
Communications	112	143	191	208	225	80	101	186	226	282
Computer and information sciences	404	711	1,269	1,695	2,053	61	193	440	522	649
Education	1,529	1,408	1,427	1,124	1,145	1,215	1,291	1,492	1,275	1,387
Engineering	3,792	4,348	5,454	5,649	6,679	160	215	359	462	567
Fine and applied arts	149	219	315	331	355	144	205	345	399	531
Foreign languages	81	75	97	103	133	131	152	151	232	279
Health professions	359	409	426	462	537	275	289	419	450	583
Home economics	22	35	29	27	41	118	108	138	130	137
Law	263	275	336	502	626	63	63	79	166	242
Letters	203	289	291	321	351	231	291	363	388	426
Library science	44	52	44	56	39	151	123	96	144	135
Life sciences	299	242	286	283	366	165	126	188	253	288
Mathematics	377	314	499	572	658	95	120	186	307	361
Military sciences	0	---	2	5	0	0	---	0	0	0
Physical sciences	592	641	890	883	1,005	114	145	210	235	301
Psychology	813	124	118	95	104	80	146	178	138	168
Public affairs and services	414	526	492	558	659	153	193	212	271	288
Social sciences	1,122	1,204	1,323	1,428	1,465	374	391	502	592	685
Theology	167	208	265	310	339	32	61	81	94	117
Interdisciplinary studies	151	179	116	151	155	44	104	93	75	82

---Data not available.

NOTE: Data for 1986-87 include imputations for 2.7 percent of bachelor's recipients whose reacial/ethnic backgrounds were not reported. Data for 1978-79 exclude U.S. Service Schools.

SOURCES: U.S. Department of Education, Office for Civil Rights, "Data on Earned Degrees Conferred by Institutions of Higher Education by Race, Ethnicity, and Sex," various years; and National Center for Education Statistics, Higher Education General Information Survey, various years, and Integrated Postsecondary Education Data System, various years.

Table 5.--Doctoral degrees conferred by institutions of higher education, by sex, race/ethnicity, and field of study: 1978-79 through 1988-89

Field of study and race/ethnicity	Men					Women				
	1978-79	1980-81	1984-85	1986-87	1988-89	1978-79	1980-81	1984-85	1986-87	1988-89
All fields, total	23,477	22,595	21,296	22,059	22,651	9,187	10,244	11,011	11,974	13,041
Agriculture and natural resources	877	940	1,039	871	952	73	127	177	177	232
Architecture and environmental design	74	73	66	66	63	22	20	23	26	23
Area and ethnic studies	85	100	83	73	57	48	57	51	59	53
Business and management	762	719	706	836	844	101	125	143	258	306
Communications	138	107	131	163	137	54	75	88	117	111
Computer and information sciences	206	227	216	322	457	30	25	24	52	81
Education	4,468	4,164	3,366	3,117	2,894	3,263	3,736	3,666	3,792	3,889
Engineering	2,408	2,447	2,972	3,555	4,133	83	104	202	263	400
Fine and applied arts	454	396	392	447	443	246	258	280	344	312
Foreign languages	296	274	178	184	169	345	314	246	257	253
Health professions	454	475	556	564	612	264	367	616	649	827
Home economics	71	78	78	65	59	148	169	198	232	204
Law	39	56	72	79	46	7	4	17	41	30
Letters	1,139	1,010	917	844	900	785	780	749	757	802
Library science	34	31	38	19	27	36	40	45	38	34
Life sciences	2,636	2,666	2,259	2,223	2,235	906	1,052	1,095	1,194	1,298
Mathematics	608	614	581	598	711	122	114	105	125	171
Military sciences	0	0	0	0	0	0	0	0	0	0
Physical sciences	2,752	2,764	2,836	3,038	3,093	350	376	546	633	759
Psychology	1,597	1,681	1,474	1,427	1,429	1,065	1,274	1,390	1,629	1,834
Public affairs and services	257	260	235	251	255	111	173	209	198	225
Social sciences	2,492	2,272	1,916	2,026	1,939	868	847	912	889	939
Theology	1,126	1,071	987	1,103	1,022	55	98	103	127	143
Interdisciplinary studies	504	170	198	188	174	205	109	126	117	115
White, non-Hispanic										
Total	18,423	17,310	15,017	14,813	14,568	7,705	8,598	8,917	9,622	10,327
Agriculture and natural resources	572	577	660	526	519	50	87	130	124	158
Architecture and environmental design	37	39	36	28	25	16	17	17	17	9
Area and ethnic studies	67	73	64	54	39	38	51	41	45	43
Business and management	572	519	475	473	491	90	100	114	215	255
Communications	111	84	95	116	97	49	63	69	93	80
Computer and information sciences	147	162	131	178	233	28	22	19	41	52
Education	3,651	3,299	2,645	2,412	2,255	2,682	3,092	2,970	3,083	3,190
Engineering	1,341	1,296	1,264	1,505	1,687	52	56	113	172	260
Fine and applied arts	407	353	343	387	366	225	234	239	297	260
Foreign languages	227	205	123	117	107	275	265	182	183	175
Health professions	368	380	405	406	424	230	309	519	526	683
Home economics	68	65	56	49	50	130	141	163	176	157
Law	20	37	52	42	13	4	3	16	29	11
Letters	980	854	765	671	720	704	695	643	625	657
Library science	29	22	25	13	15	32	29	30	30	27
Life sciences	2,241	2,288	1,839	1,703	1,678	750	889	886	921	999
Mathematics	428	422	303	285	321	92	85	69	64	92
Military sciences	0	---	0	0	0	0	---	0	0	0
Physical sciences	2,156	2,153	2,042	1,985	1,926	259	292	389	456	510
Psychology	1,449	1,488	1,308	1,289	1,263	931	1,149	1,236	1,436	1,613
Public affairs and services	202	205	168	177	168	88	125	167	158	177
Social sciences	1,927	1,751	1,262	1,328	1,172	751	714	707	723	702
Theology	1,034	903	816	931	863	54	90	87	109	121
Interdisciplinary studies	389	135	140	138	136	175	90	111	99	96

See footnotes at end of table.

Table 5.--Doctoral degrees conferred by institutions of higher education, by sex, race/ethnicity, and field of study: 1978-79 through 1988-89--Continued

Field of study and race/ethnicity	Men					Women				
	1978-79	1980-81	1984-85	1986-87	1988-89	1978-79	1980-81	1984-85	1986-87	1988-89
Black, non-Hispanic										
Total	733	694	561	488	497	534	571	593	572	574
Agriculture and natural resources	14	14	21	13	12	0	1	3	5	3
Architecture and environmental design	3	5	4	4	0	2	1	1	3	2
Area and ethnic studies	7	6	3	2	1	5	0	0	5	1
Business and management	16	26	9	21	17	2	6	5	8	3
Communications	8	3	8	7	2	2	7	10	10	14
Computer and information sciences	3	1	3	1	0	1	0	0	1	2
Education	310	289	184	177	174	315	325	337	291	276
Engineering	22	23	35	27	27	2	1	5	3	3
Fine and applied arts	9	12	7	3	8	3	5	8	9	3
Foreign languages	4	4	4	7	5	6	5	5	9	9
Health professions	11	9	15	8	11	9	17	18	25	28
Home economics	1	3	0	2	0	8	6	8	21	12
Law	1	1	2	1	0	1	0	1	2	4
Letters	45	28	16	12	14	26	28	17	23	24
Library science	0	3	2	0	1	2	6	6	1	0
Life sciences	25	36	32	30	35	22	28	21	23	23
Mathematics	12	6	7	8	5	1	3	0	1	3
Military sciences	0	---	0	0	0	0	---	0	0	0
Physical sciences	43	28	26	22	26	5	4	9	4	6
Psychology	50	62	51	35	40	61	54	62	62	73
Public affairs and services	20	19	20	16	18	11	33	20	20	23
Social sciences	91	66	67	57	62	41	34	45	38	46
Theology	32	45	41	34	35	0	0	9	5	9
Interdisciplinary studies	6	5	4	1	4	9	7	3	3	7
Hispanic										
Total	294	277	431	439	352	145	179	246	311	273
Agriculture and natural resources	10	14	16	12	17	2	0	2	3	3
Architecture and environmental design	3	2	1	0	1	0	0	0	0	1
Area and ethnic studies	1	1	7	2	3	2	0	2	0	1
Business and management	4	1	4	6	12	1	1	0	4	2
Communications	2	0	0	7	2	0	0	1	4	2
Computer and information sciences	1	0	2	5	1	0	0	0	1	3
Education	86	66	78	87	68	50	74	85	120	94
Engineering	21	22	88	65	37	1	1	1	3	6
Fine and applied arts	4	2	7	8	6	3	2	5	3	2
Foreign languages	24	19	23	11	10	20	18	18	31	22
Health professions	2	3	6	10	5	2	5	10	7	10
Home economics	0	0	0	1	0	0	1	7	5	2
Law	1	1	1	12	0	0	0	0	7	0
Letters	10	6	8	22	16	9	8	10	9	17
Library science	0	0	0	0	0	0	1	1	0	0
Life sciences	19	30	39	36	36	9	10	28	23	11
Mathematics	5	4	16	7	5	1	2	6	2	2
Military sciences	0	---	0	0	0	0	---	0	0	0
Physical sciences	19	21	36	43	43	4	2	7	17	11
Psychology	33	34	27	23	37	31	31	31	48	52
Public affairs and services	1	6	5	16	4	0	4	6	2	6
Social sciences	32	37	50	50	36	7	15	23	18	24
Theology	7	7	12	11	10	0	0	0	0	0
Interdisciplinary studies	9	1	5	5	3	3	4	3	4	2

See footnotes at end of table.

Table 5.--Doctoral degrees conferred by institutions of higher education, by sex, race/ethnicity, and field of study: 1978-79 through 1988-89--Continued

Field of study and race/ethnicity	Men					Women				
	1978-79	1980-81	1984-85	1986-87	1988-89	1978-79	1980-81	1984-85	1986-87	1988-89
Asian or Pacific Islander										
Total	646	655	802	795	954	165	222	304	302	383
Agriculture and natural resources	29	22	51	28	22	5	7	6	4	8
Architecture and environmental design	1	5	3	1	4	1	0	1	0	2
Area and ethnic studies	2	5	4	1	0	1	1	3	0	2
Business and management	12	19	31	46	52	0	6	4	4	5
Communications	3	2	1	0	1	0	0	0	1	1
Computer and information sciences	8	14	13	16	37	0	0	1	4	5
Education	60	48	31	59	58	37	57	53	45	70
Engineering	180	182	244	240	300	3	9	19	18	26
Fine and applied arts	3	3	4	6	16	4	4	9	12	17
Foreign languages	5	5	3	2	3	4	0	3	2	4
Health professions	11	18	30	23	29	2	7	23	17	18
Home economics	1	1	1	1	2	3	5	4	5	4
Law	2	0	0	0	2	0	0	0	0	0
Letters	20	16	19	11	21	6	6	12	19	15
Library science	1	1	3	2	1	0	2	3	0	2
Life sciences	88	93	79	83	95	39	47	50	66	79
Mathematics	21	24	31	24	24	8	7	5	13	9
Military sciences	0	---	0	0	0	0	---	0	0	0
Physical sciences	100	90	134	129	149	21	16	45	37	36
Psychology	11	18	26	22	26	12	15	25	29	35
Public affairs and services	8	6	5	4	8	2	5	5	5	8
Social sciences	53	48	44	59	68	12	24	23	18	33
Theology	15	33	35	36	32	0	0	6	1	3
Interdisciplinary studies	12	2	10	2	4	5	4	4	2	1
American Indian/Alaskan Native										
Total	69	95	64	58	49	35	35	55	46	35
Agriculture and natural resources	0	2	3	2	0	0	0	0	0	0
Architecture and environmental design	0	0	0	0	1	0	0	0	0	0
Area and ethnic studies	0	1	0	1	0	0	0	0	0	1
Business and management	2	5	3	1	2	1	0	1	1	0
Communications	0	1	0	0	0	0	0	0	0	0
Computer and information sciences	0	1	1	1	0	0	0	0	0	0
Education	25	41	19	25	11	18	16	32	24	14
Engineering	2	5	6	3	3	0	0	1	0	0
Fine and applied arts	3	1	1	0	0	0	1	1	2	1
Foreign languages	0	1	1	0	0	1	0	1	0	0
Health professions	1	3	5	1	1	1	3	2	2	1
Home economics	0	0	0	0	0	0	1	0	0	0
Law	0	0	0	0	0	0	0	0	0	0
Letters	1	5	0	3	3	2	2	4	3	0
Library science	0	0	0	1	0	0	0	0	0	0
Life sciences	6	5	2	4	6	0	3	2	1	4
Mathematics	0	2	0	1	0	0	0	0	0	1
Military sciences	0	---	0	0	0	0	---	0	0	0
Physical sciences	7	3	9	3	9	1	1	3	0	4
Psychology	7	7	4	6	3	3	3	1	10	5
Public affairs and services	2	1	3	2	0	1	1	0	0	1
Social sciences	11	9	4	2	8	6	3	6	2	2
Theology	1	1	3	2	2	0	0	0	0	0
Interdisciplinary studies	1	1	0	0	0	1	1	1	1	1

See footnotes at end of table.

Table 5.--Doctoral degrees conferred by institutions of higher education, by sex, race/ethnicity, and field of study: 1978-79 through 1988-89--Continued

Field of study and race/ethnicity	Men					Women				
	1978-79	1980-81	1984-85	1986-87	1988-89	1978-79	1980-81	1984-85	1986-87	1988-89
Nonresident alien										
Total	3,312	3,564	4,421	5,466	6,231	603	639	896	1,121	1,449
Agriculture and natural resources	252	311	288	290	382	16	32	36	41	60
Architecture and environmental design	30	22	22	33	32	3	2	4	6	9
Area and ethnic studies	8	14	5	13	14	2	5	5	9	5
Business and management	156	149	184	289	270	7	12	19	26	41
Communications	14	17	27	33	35	3	5	8	9	14
Computer and information sciences	47	49	66	121	186	1	3	4	5	19
Education	336	421	409	357	328	161	172	189	229	245
Engineering	842	919	1,335	1,715	2,079	25	37	63	67	105
Fine and applied arts	28	25	30	43	47	11	12	18	21	29
Foreign languages	36	40	24	47	44	39	26	37	32	43
Health professions	61	62	95	116	142	20	26	44	72	87
Home economics	1	9	21	12	7	7	15	16	25	29
Law	15	17	17	24	31	2	1	0	3	15
Letters	83	101	109	125	126	38	41	63	78	89
Library science	4	5	8	3	10	2	2	5	7	5
Life sciences	257	214	268	367	385	86	75	108	160	182
Mathematics	142	156	224	273	356	20	17	25	45	64
Military sciences	0	---	0	0	0	0	---	0	0	0
Physical sciences	427	469	589	856	940	60	61	93	119	192
Psychology	47	72	58	52	60	27	22	35	44	56
Public affairs and services	24	23	34	36	57	9	5	11	13	10
Social sciences	378	361	489	530	593	51	57	108	90	132
Theology	37	82	80	89	80	1	8	1	12	10
Interdisciplinary studies	87	26	39	42	27	12	3	4	8	8

--- Data not available

NOTE: Data for 1978-79 exclude U.S. Service Schools

SOURCES: U.S. Department of Education, Office for Civil Rights, "Data on Earned Degrees Conferred by Institutions of Higher Education by Race, Ethnicity, and Sex," various years, and National Center for Education Statistics, Higher Education General Information Survey, various years, and Integrated Postsecondary Education Data System, various years.

Table 6.—First-professional degrees conferred by institutions of higher education, by sex, race/ethnicity, and field of study: 1978–79 through 1988–89

Field of study and race/ethnicity	Men					Women				
	1978–79	1980–81	1984–85	1986–87	1988–89	1978–79	1980–81	1984–85	1986–87	1988–89
All fields, total	52,333	52,194	47,501	46,522	45,067	16,170	19,146	23,556	25,095	25,691
Dentistry (D.D.S. or D.M.D.)	4794	4672	3744	3602	3139	640	788	988	1137	1108
Medicine (M.D.)	11381	11672	10363	10431	10326	3405	3833	4609	4998	5128
Optometry (O.D.)	910	890	812	697	683	136	207	302	385	410
Osteopathic medicine (D.O.)	899	957	1136	1206	1183	167	188	353	412	452
Pharmacy (D. Phar.)	409	381	330	351	422	230	283	318	510	652
Podiatry (Pod.D., D.P. or D.P.M.)	531	528	464	468	487	41	69	118	123	149
Veterinary medicine (D.V.M.)	1218	1245	1134	1150	981	496	677	1043	1080	1176
Chiropractic (D.C. or D.C.M.)	1498	1948	2072	1864	2159	173	389	589	629	731
Law, general (LL.B. or J.D.)	25180	24563	22120	21561	21048	10026	11768	13928	14495	14519
Theological professions, general	5514	5338	5294	5192	4639	856	944	1291	1326	1366
Other	0	0	32	0	0	0	0	17	0	0
White, non-Hispanic										
Total	48,123	47,629	42,630	41,149	39,448	14,307	16,922	20,589	21,539	21,740
Dentistry (D.D.S. or D.M.D.)	4,381	4,257	3,267	3,008	2,515	520	639	761	850	765
Medicine (M.D.)	10,299	10,460	9,051	9,003	8,726	2,906	3,263	3,864	4,134	4,064
Optometry (O.D.)	851	843	722	625	606	117	174	257	318	330
Osteopathic medicine (D.O.)	856	918	1,073	1,132	1,065	157	173	327	366	400
Pharmacy (D. Phar.)	306	276	243	236	289	164	195	213	295	446
Podiatry (Pod.D., D.P. or D.P.M.)	506	495	425	423	427	37	57	92	98	114
Veterinary medicine (D.V.M.)	1,163	1,204	1,078	1,035	924	465	642	994	1,017	1,105
Chiropractic (D.C. or D.C.M.)	1,447	1,787	1,932	1,723	1,958	166	357	551	575	656
Law, general (LL.B. or J.D.)	23,346	22,564	20,268	19,528	19,011	8,988	10,545	12,369	12,714	12,668
Theological professions, general	4,968	4,825	4,540	4,438	3,927	787	877	1,144	1,172	1,192
Other	0	0	31	0	0	0	0	17	0	0
Black, non-Hispanic										
Total	1,783	1,772	1,623	1,835	1,608	1,053	1,159	1,406	1,585	1,493
Dentistry (D.D.S. or D.M.D.)	125	126	101	169	101	55	69	76	93	78
Medicine (M.D.)	493	445	399	437	380	269	324	331	349	399
Optometry (O.D.)	8	3	7	8	16	4	6	7	10	14
Osteopathic medicine (D.O.)	12	11	18	7	27	6	5	11	19	14
Pharmacy (D. Phar.)	6	8	16	37	19	10	12	14	75	32
Podiatry (Pod.D., D.P. or D.P.M.)	13	13	17	18	21	2	7	18	15	19
Veterinary medicine (D.V.M.)	19	16	14	12	11	18	21	22	17	21
Chiropractic (D.C. or D.C.M.)	5	11	13	16	15	2	2	9	10	9
Law, general (LL.B. or J.D.)	855	905	733	822	770	645	671	828	913	816
Theological professions, general	247	234	305	309	248	42	42	90	84	91
Other	0	0	0	0	0	0	0	0	0	0
Hispanic										
Total	989	1,131	1,239	1,303	1,367	294	410	645	748	887
Dentistry (D.D.S. or D.M.D.)	70	69	90	120	134	15	17	33	49	67
Medicine (M.D.)	243	305	327	319	369	81	90	152	165	196
Optometry (O.D.)	8	13	20	20	12	0	3	8	9	15
Osteopathic medicine (D.O.)	8	11	13	17	39	2	2	5	8	19
Pharmacy (D. Phar.)	6	11	5	16	14	1	8	7	26	17
Podiatry (Pod.D., D.P. or D.P.M.)	3	10	5	8	12	1	2	5	3	3
Veterinary medicine (D.V.M.)	11	7	20	73	25	3	4	14	17	19
Chiropractic (D.C. or D.C.M.)	18	21	34	28	55	1	3	8	11	18
Law, general (LL.B. or J.D.)	543	621	621	610	636	185	278	398	444	510
Theological professions, general	79	63	104	92	71	5	3	15	16	23
Other	0	0	0	0	0	0	0	0	0	0

See footnotes at end of table.

Table 6.—First-professional degrees conferred by institutions of higher education, by sex, race/ethnicity, and field of study: 1978–79 through 1988–89

Field of study and race/ethnicity	Men					Women				
	1978–79	1980–81	1984–85	1986–87	1988–89	1978–79	1980–81	1984–85	1986–87	1988–89
Asian or Pacific Islander										
Total	860	991	1,152	1,420	1,811	345	465	664	850	1,156
Dentistry (D.D.S. or D.M.D.)	158	159	200	218	284	36	45	89	101	134
Medicine (M.D.)	261	329	391	534	742	108	117	192	271	405
Optometry (O.D.)	33	21	51	33	37	12	19	26	41	42
Osteopathic medicine (D.O.)	13	8	23	31	40	0	6	8	14	15
Pharmacy (D. Phar.)	70	63	35	27	80	42	52	61	83	130
Podiatry (Pod.D., D.P. or D.P.M.)	6	6	12	8	11	1	2	3	4	7
Veterinary medicine (D.V.M.)	9	11	12	11	7	1	6	8	13	22
Chiropractic (D.C. or D.C.M.)	18	21	25	25	37	2	1	6	5	15
Law, general (LL.B. or J.D.)	251	322	323	393	426	139	208	265	301	367
Theological professions, general	41	51	80	140	147	4	9	6	17	19
Other	0	0	0	0	0	0	0	0	0	0
American Indian/Alaskan Native										
Total	150	134	176	183	149	66	58	72	121	119
Dentistry (D.D.S. or D.M.D.)	21	9	22	11	7	2	1	9	2	6
Medicine (M.D.)	25	39	64	36	31	13	12	25	30	30
Optometry (O.D.)	0	1	1	3	3	0	1	1	1	1
Osteopathic medicine (D.O.)	6	7	6	10	8	2	1	2	3	1
Pharmacy (D. Phar.)	1	2	1	6	1	0	1	0	0	1
Podiatry (Pod.D., D.P. or D.P.M.)	0	0	2	2	2	0	1	0	0	0
Veterinary medicine (D.V.M.)	8	2	5	16	8	7	2	1	15	6
Chiropractic (D.C. or D.C.M.)	5	1	4	3	4	1	2	2	1	0
Law, general (LL.B. or J.D.)	80	68	69	84	81	41	33	30	68	65
Theological professions, general	4	5	2	12	4	0	4	2	1	9
Other	0	0	0	0	0	0	0	0	0	0
Nonresident alien										
Total	428	537	681	632	684	105	132	180	252	296
Dentistry (D.D.S. or D.M.D.)	39	52	64	78	98	12	17	20	42	58
Medicine (M.D.)	60	94	131	102	78	28	27	45	49	34
Optometry (O.D.)	10	9	11	8	9	3	4	3	6	8
Osteopathic medicine (D.O.)	3	2	3	9	4	0	1	0	2	3
Pharmacy (D. Phar.)	20	21	30	29	19	13	15	23	31	26
Podiatry (Pod.D., D.P. or D.P.M.)	3	4	3	9	14	0	0	0	3	6
Veterinary medicine (D.V.M.)	8	5	5	3	6	2	2	4	1	3
Chiropractic (D.C. or D.C.M.)	5	107	64	69	90	1	24	13	27	33
Law, general (LL.B. or J.D.)	105	83	106	124	124	28	33	38	55	93
Theological professions, general	175	160	263	201	242	18	9	34	36	32
Other	0	0	1	0	0	0	0	0	0	0

NOTE: Data for 1978–79 exclude U.S. Service Schools.

SOURCE: U.S. Department of Education, Office for Civil Rights, "Data on Earned Degrees Conferred by Institutions of Higher Education by Race, Ethnicity, and Sex," various years, and National Center for Education Statistics, Higher Education General Information Survey, various years, and Integrated Postsecondary Education Data System, various years.

Table 7.—Associate degrees conferred by institutions of higher education, by sex, race/ethnicity, and field of study: 1984–85 and 1988–89

Field of study	Men			Women			Total		
	1984–85	1986–87	1988–89	1984–85	1986–87	1988–89	1984–85	1986–87	1988–89
All fields, total	190,409	190,832	182,909	239,406	245,467	247,037	429,815	436,299	429,946
Agriculture and natural resources	4,347	3,691	3,074	1,973	1,767	1,666	6,320	5,458	4,740
Architecture and environmental desig	211	229	256	971	1,436	1,559	1,182	1,665	1,815
Area and ethnic studies	1	6	8	9	8	7	10	14	15
Business and management	39,943	36,924	33,121	76,794	78,307	73,458	116,737	115,231	106,579
Communications	2,319	2,065	2,113	1,545	1,476	1,631	3,864	3,541	3,744
Computer and information sciences	6,102	4,791	4,005	5,741	4,310	3,909	11,843	9,101	7,914
Education	2,106	2,113	2,132	4,903	5,220	5,198	7,009	7,333	7,330
Engineering	54,330	56,921	50,559	5,061	5,591	5,299	59,391	62,512	55,858
Fine and applied arts	7,566	8,095	7,439	5,319	6,066	5,355	12,885	14,161	12,794
Foreign languages	183	231	112	167	190	220	350	421	332
Health professions	7,758	7,214	6,977	58,106	55,333	52,351	65,864	62,547	59,328
Home economics	2,530	2,738	3,304	6,561	6,590	7,126	9,091	9,328	10,430
Law	275	287	471	1,686	2,211	3,271	1,961	2,498	3,742
Letters	252	222	222	393	386	385	645	608	607
Library science	9	19	12	99	98	91	108	117	103
Life sciences	381	397	412	471	495	558	852	892	970
Mathematics	429	418	415	264	248	239	693	666	654
Military sciences	15	39	133	0	2	31	15	41	164
Physical sciences	1,252	1,253	1,135	747	808	812	1,999	2,061	1,947
Psychology	244	292	280	577	722	805	821	1,014	1,085
Public affairs and services	10,819	10,537	10,939	5,286	5,484	5,813	16,105	16,021	16,752
Social sciences	898	1,095	1,174	1,188	1,489	1,526	2,086	2,584	2,700
Theology	390	355	320	299	239	248	689	594	568
Interdisciplinary studies	48,049	50,900	54,296	61,246	66,991	75,479	109,295	117,891	129,775
White, non-Hispanic									
Total	157,278	158,126	150,073	198,065	203,693	203,049	355,343	361,819	353,122
Agriculture and natural resources	4,050	3,492	2,913	1,903	1,657	1,561	5,953	5,149	4,474
Architecture and environmental desig	166	169	191	862	1,279	1,355	1,028	1,448	1,546
Area and ethnic studies	0	2	1	3	1	2	3	3	3
Business and management	32,633	30,367	26,753	62,259	63,623	58,752	94,892	93,990	85,505
Communications	1,960	1,750	1,792	1,346	1,222	1,359	3,306	2,972	3,151
Computer and information sciences	5,066	3,855	3,180	4,662	3,255	2,865	9,728	7,110	6,045
Education	1,418	1,654	1,584	3,846	4,288	4,229	5,264	5,942	5,813
Engineering	45,574	47,010	41,793	4,051	4,326	4,163	49,625	51,336	45,956
Fine and applied arts	6,192	6,811	6,147	4,522	5,165	4,484	10,714	11,976	10,631
Foreign languages	149	203	90	120	150	166	269	353	256
Health professions	6,530	5,945	5,624	51,189	47,931	44,758	57,719	53,876	50,382
Home economics	2,261	2,461	2,910	5,015	5,157	5,591	7,276	7,618	8,501
Law	210	216	378	1,487	1,963	2,838	1,697	2,179	3,216
Letters	205	172	169	312	308	307	517	480	476
Library science	8	14	10	89	90	78	97	104	88
Life sciences	296	288	310	366	329	418	662	617	728
Mathematics	321	313	301	204	186	181	525	499	482
Military sciences	15	37	109	0	2	24	15	39	133
Physical sciences	1,048	1,080	932	617	687	694	1,665	1,767	1,626
Psychology	204	233	210	476	592	643	680	825	853
Public affairs and services	9,106	8,794	9,229	4,020	4,197	4,486	13,126	12,991	13,715
Social sciences	596	792	840	791	1,061	1,117	1,387	1,853	1,957
Theology	339	308	286	261	219	224	600	527	510
Interdisciplinary studies	38,931	42,160	44,321	49,664	56,005	62,754	88,595	98,165	107,075

See footnotes at end of table.

Table 7.—Associate degrees conferred by institutions of higher education, by sex, race/ethnicity, and field of study: 1984–85 and 1988–89—Continued

Field of study	Men			Women			Total		
	1984–85	1986–87	1988–89	1984–85	1986–87	1988–89	1984–85	1986–87	1988–89
Black, non-Hispanic									
Total	14,184	13,947	12,826	21,607	21,510	21,585	35,791	35,457	34,411
Agriculture and natural resources	98	46	24	19	16	18	117	62	42
Architecture and environmental desig	17	10	13	29	46	55	46	56	68
Area and ethnic studies	1	0	4	0	3	1	1	3	5
Business and management	3,597	3,479	3,057	8,123	8,220	7,924	11,720	11,699	10,981
Communications	202	190	168	113	139	138	335	329	306
Computer and information sciences	446	415	315	462	539	556	908	954	871
Education	248	222	253	405	417	474	653	639	727
Engineering	3,517	3,751	3,073	502	529	565	4,019	4,280	3,638
Fine and applied arts	462	469	382	283	315	253	745	784	635
Foreign languages	21	9	2	8	5	9	29	14	11
Health professions	560	599	534	4,018	4,279	4,374	4,578	4,878	4,908
Home economics	159	131	193	870	838	812	1,029	969	1,005
Law	39	44	44	89	126	214	128	170	258
Letters	18	16	22	37	23	24	55	39	46
Library science	1	1	0	5	4	5	6	5	5
Life sciences	37	21	18	56	84	49	93	105	67
Mathematics	17	27	17	7	12	9	24	39	26
Military sciences	0	0	17	0	0	5	0	0	22
Physical sciences	57	53	39	52	51	43	109	104	82
Psychology	22	29	30	43	48	53	65	77	83
Public affairs and services	897	819	720	808	810	850	1,705	1,629	1,570
Social sciences	140	155	162	201	149	163	341	304	325
Theology	21	30	18	10	4	6	31	34	24
Interdisciplinary studies	3,587	3,431	3,721	5,467	4,853	4,985	9,054	8,284	8,706
Hispanic									
Total	8,561	8,764	9,172	10,846	10,581	11,122	19,407	19,315	20,294
Agriculture and natural resources	72	61	50	20	64	59	92	125	109
Architecture and environmental desig	6	23	17	44	50	64	50	73	81
Area and ethnic studies	0	1	0	1	1	0	1	2	0
Business and management	1,704	1,376	1,455	3,425	3,318	3,288	5,129	4,694	4,743
Communications	75	64	74	55	60	52	130	124	126
Computer and information sciences	216	207	199	219	208	177	435	415	376
Education	145	124	157	494	290	297	639	414	454
Engineering	2,034	2,554	2,335	176	228	211	2,210	2,782	2,546
Fine and applied arts	338	358	391	196	223	241	534	581	632
Foreign languages	7	5	7	27	17	28	34	22	35
Health professions	395	374	442	1,578	1,672	1,610	1,973	2,046	2,052
Home economics	42	44	65	405	352	390	447	396	455
Law	17	19	28	59	75	105	76	94	133
Letters	8	11	7	21	21	18	29	32	25
Library science	0	2	1	2	2	4	2	4	5
Life sciences	19	30	26	19	24	36	38	54	62
Mathematics	29	22	33	9	18	17	38	40	50
Military sciences	0	1	7	0	0	2	0	1	9
Physical sciences	80	51	60	31	27	32	111	78	92
Psychology	10	16	24	33	51	71	43	67	95
Public affairs and services	535	660	640	315	290	308	850	950	948
Social sciences	101	80	88	124	176	118	225	256	206
Theology	19	11	9	11	7	8	30	18	17
Interdisciplinary studies	2,709	2,670	3,057	3,582	3,407	3,986	6,291	6,077	7,043

See footnotes at end of table.

Table 7.—Associate degrees conferred by institutions of higher education, by sex, race/ethnicity, and field of study: 1984–85 and 1988–89—Continued

Field of study	Men			Women			Total		
	1984–85	1986–87	1988–89	1984–85	1986–87	1988–89	1984–85	1986–87	1988–89
Asian or Pacific Islander									
Total	5,492	6,172	6,320	4,422	5,622	6,113	9,914	11,794	12,433
Agriculture and natural resources	22	20	13	6	7	9	28	27	22
Architecture and environmental desig	9	19	15	18	35	47	27	54	62
Area and ethnic studies	0	0	1	0	0	0	0	0	1
Business and management	900	997	1,041	1,524	1,856	1,970	2,424	2,853	3,011
Communications	26	24	27	6	17	23	32	41	50
Computer and information sciences	211	199	170	236	205	187	447	404	357
Education	253	57	46	38	73	57	291	130	103
Engineering	1,973	2,587	2,331	236	392	241	2,209	2,979	2,572
Fine and applied arts	406	306	376	181	154	195	587	460	571
Foreign languages	1	5	4	7	8	4	8	13	8
Health professions	174	173	227	672	855	920	846	1,028	1,147
Home economics	49	66	90	121	141	181	170	207	271
Law	5	3	2	24	37	40	29	40	42
Letters	1	14	7	1	20	9	2	34	16
Library science	0	1	0	3	2	2	3	3	2
Life sciences	13	25	31	18	37	25	31	62	56
Mathematics	34	46	45	29	26	23	63	72	68
Military sciences	0	0	0	0	0	0	0	0	0
Physical sciences	39	36	69	32	31	26	71	67	95
Psychology	1	6	5	7	14	9	8	20	14
Public affairs and services	136	133	175	50	78	66	186	211	241
Social sciences	24	37	41	15	58	73	39	95	114
Theology	2	1	2	3	2	6	5	3	8
Interdisciplinary studies	1,213	1,417	1,602	1,195	1,574	2,000	2,408	2,991	3,602
American Indian/Alaskan Native									
Total	1,198	1,263	1,315	1,755	1,933	2,003	2,953	3,196	3,318
Agriculture and natural resources	41	36	29	12	15	6	53	51	35
Architecture and environmental desig	2	1	2	2	3	2	4	4	4
Area and ethnic studies	0	3	2	5	3	4	5	6	6
Business and management	234	203	193	562	608	589	796	811	782
Communications	4	9	13	7	13	9	11	22	22
Computer and information sciences	16	20	24	36	27	39	52	47	63
Education	23	33	42	78	101	85	101	134	127
Engineering	313	320	360	41	40	49	354	360	409
Fine and applied arts	74	96	63	42	89	42	116	185	105
Foreign languages	0	6	5	0	5	5	0	11	10
Health professions	45	51	50	327	352	360	372	403	410
Home economics	9	17	15	54	37	61	63	54	76
Law	0	5	8	7	6	28	7	11	36
Letters	1	4	8	4	4	10	5	8	18
Library science	0	0	1	0	0	2	0	0	3
Life sciences	4	5	8	4	13	12	8	18	20
Mathematics	4	2	6	0	2	3	4	4	9
Military sciences	0	1	0	0	0	0	0	1	0
Physical sciences	7	3	1	7	3	2	14	6	3
Psychology	2	6	5	9	11	8	11	17	13
Public affairs and services	64	60	93	62	84	71	126	144	164
Social sciences	10	18	15	25	34	29	35	52	44
Theology	0	0	0	1	1	2	1	1	2
Interdisciplinary studies	345	364	372	470	482	585	815	846	957

See footnotes at end of table.

Table 7.—Associate degrees conferred by institutions of higher education, by sex, race/ethnicity, and field of study: 1984–85 and 1988–89—Continued

Field of study	Men			Women			Total		
	1984–85	1986–87	1988–89	1984–85	1986–87	1988–89	1984–85	1986–87	1988–89
Nonresident alien									
Total	3,696	2,560	3,203	2,711	2,128	3,165	6,407	4,688	6,368
Agriculture and natural resources	64	36	45	13	8	13	77	44	58
Architecture and environmental desig	11	7	18	16	23	36	27	30	54
Area and ethnic studies	0	0	0	0	0	0	0	0	0
Business and management	875	502	622	901	682	935	1,776	1,184	1,557
Communications	32	28	39	18	25	50	50	53	89
Computer and information sciences	147	95	117	126	76	85	273	171	202
Education	19	23	50	42	51	56	61	74	106
Engineering	919	699	667	55	76	70	974	775	737
Fine and applied arts	94	55	80	95	120	140	189	175	220
Foreign languages	5	3	4	5	5	8	10	8	12
Health professions	54	72	100	322	244	329	376	316	429
Home economics	10	19	31	96	65	91	106	84	122
Law	4	0	11	20	4	46	24	4	57
Letters	19	5	9	18	10	17	37	15	26
Library science	0	1	0	0	0	0	0	1	0
Life sciences	12	28	19	8	8	18	20	36	37
Mathematics	24	8	13	15	4	6	39	12	19
Military sciences	0	0	0	0	0	0	0	0	0
Physical sciences	21	30	34	8	9	15	29	39	49
Psychology	5	2	6	9	6	21	14	8	27
Public affairs and services	81	71	82	31	25	32	112	96	114
Social sciences	27	13	28	32	11	26	59	24	54
Theology	9	5	5	13	6	2	22	11	7
Interdisciplinary studies	1,264	858	1,223	868	670	1,169	2,132	1,528	2,392

NOTE: Data for the 1982–83 survey year were not edited; thus, they could not be analyzed.

SOURCE: U.S. Department of Education, Office for Civil Rights, "Data on Earned Degrees Conferred by Institutions of Higher Education by Race, Ethnicity, and Sex," various years; and National Center for Education Statistics, Higher Education General Information Survey, various years, and Integrated Postsecondary Education Data System, various years.

Table 8.—Degrees conferred by institutions of higher education, by level and field of study: 1978–79 through 1988–89

Level and field of study	Year					Annual percent change			
	1978–79	1980–81	1984–85	1986–87	1988–89	1978–79 to 1980–81	1980–81 to 1984–85	1984–85 to 1986–87	1986–87 to 1988–89
	No.	No.	No.	No.	No.	Pct.	Pct.	Pct.	Pct.
Associate degrees, total	---	---	429,815	436,299	429,946	---	---	0.8	-0.7
Agriculture and natural resources	---	---	6,320	5,458	4,740	---	---	-6.8	-6.6
Architecture and environmental design	---	---	1,182	1,665	1,815	---	---	20.4	4.5
Area and ethnic studies	---	---	10	14	15	---	---	20.0	3.6
Business and management	---	---	116,737	115,231	106,579	---	---	-0.6	-3.8
Communications	---	---	3,864	3,541	3,744	---	---	-4.2	2.9
Computer and information sciences	---	---	11,843	9,101	7,914	---	---	-11.6	-6.5
Education	---	---	7,009	7,333	7,330	---	---	2.3	0.0
Engineering	---	---	59,391	62,512	55,858	---	---	2.6	-5.3
Fine and applied arts	---	---	12,885	14,161	12,794	---	---	5.0	-4.8
Foreign languages	---	---	350	421	332	---	---	10.1	-10.6
Health professions	---	---	65,864	62,547	59,328	---	---	-2.5	-2.6
Home economics	---	---	9,091	9,328	10,430	---	---	1.3	5.9
Law	---	---	1,961	2,498	3,742	---	---	13.7	24.9
Letters	---	---	645	608	607	---	---	-2.9	-0.1
Library science	---	---	108	117	103	---	---	4.2	-6.0
Life sciences	---	---	852	892	970	---	---	2.3	4.4
Mathematics	---	---	693	666	654	---	---	-1.9	-0.9
Military sciences	---	---	15	41	164	---	---	---	---
Physical sciences	---	---	1,999	2,061	1,947	---	---	1.6	-2.8
Psychology	---	---	821	1,014	1,085	---	---	11.8	3.5
Public affairs and services	---	---	16,105	16,021	16,752	---	---	-0.3	2.3
Social sciences	---	---	2,086	2,584	2,700	---	---	11.9	2.2
Theology	---	---	589	594	568	---	---	-6.9	-2.2
Interdisciplinary studies	---	---	109,295	117,891	129,775	---	---	3.9	5.0
Bachelor's degrees, total	916,226	934,800	968,311	991,260	1,015,239	1.0	0.9	1.2	1.2
Agriculture and natural resources	23,134	21,886	18,015	14,991	13,488	-2.7	-4.4	-8.4	-5.0
Architecture and environmental design	9,273	9,455	9,217	8,950	9,191	1.0	-0.6	-1.4	1.3
Area and ethnic studies	2,569	2,585	2,851	3,307	3,949	0.3	2.6	8.0	9.7
Business and management	172,524	200,857	231,308	241,100	246,659	8.2	3.8	2.1	1.2
Communications	26,437	31,282	41,547	45,393	48,625	9.2	8.2	4.6	3.6
Computer and information sciences	8,693	15,120	38,589	39,590	30,637	37.0	38.8	1.3	-11.3
Education	125,786	108,265	87,788	87,083	96,985	-7.0	-4.7	-0.4	5.7
Engineering	61,426	74,954	94,560	93,097	85,273	11.0	6.5	-0.8	-4.2
Fine and applied arts	40,708	40,241	37,351	36,233	37,781	-0.6	-1.8	-1.5	2.1
Foreign languages	11,818	10,319	9,845	10,197	10,774	-6.3	-1.1	1.8	2.8
Health professions	62,085	63,649	63,289	63,213	59,111	1.3	-0.1	-0.1	-3.2
Home economics	18,259	18,370	15,454	14,940	14,717	0.3	-4.0	-1.7	-0.7
Law	670	776	1,131	1,177	1,976	7.9	11.4	2.0	33.9
Letters	41,978	40,028	40,193	43,116	49,734	-2.3	0.1	3.6	7.7
Library science	558	375	194	140	122	-16.4	-12.1	-13.9	-6.4
Life sciences	48,794	43,216	38,115	38,120	36,079	-5.7	-3.0	0.0	-2.7
Mathematics	11,624	11,078	14,885	16,444	15,237	-2.3	8.6	5.2	-3.7
Military sciences	141	305	298	384	419	58.2	-0.6	14.4	4.6
Physical sciences	22,861	23,950	23,555	20,071	17,204	2.4	-0.4	-7.4	-7.1
Psychology	42,395	40,833	39,523	42,835	48,516	-1.8	-0.8	4.2	6.6
Public affairs and services	38,249	36,311	30,572	31,214	34,051	-2.5	-4.0	1.0	4.5
Social sciences	108,000	100,647	90,795	96,172	107,714	-3.4	-2.4	3.0	6.0
Theology	5,898	5,807	5,874	5,728	5,322	-0.8	0.3	-1.2	-3.5
Interdisciplinary studies	32,346	34,491	33,362	37,765	41,672	3.3	-0.8	6.6	5.2

See footnotes at end of table.

Table 8.--Degrees conferred by institutions of higher education, by level and field of study: 1978-79 through 1988-89--Continued

Level and field of study	Year					Annual percent change			
	1978-79	1980-81	1984-85	1986-87	1988-89	1978-79 to 1980-81	1980-81 to 1984-85	1984-85 to 1986-87	1986-87 to 1988-89
	No.	No.	No.	No.	No.	Pct.	Pct.	Pct.	Pct.
Master's degrees, total	301,707	294,183	280,421	289,341	308,872	-1.2	-1.2	1.6	3.4
Agriculture and natural resources	3,994	4,003	3,901	3,521	3,245	0.1	-0.6	-4.9	-3.9
Architecture and environmental design	3,113	3,153	3,233	3,164	3,378	0.6	0.6	-1.1	3.4
Area and ethnic studies	738	718	778	853	978	-1.4	2.1	4.8	7.3
Business and management	50,043	57,541	66,596	67,504	73,154	7.5	3.9	0.7	4.2
Communications	2,880	3,105	3,521	3,892	4,233	3.9	3.3	5.3	4.4
Computer and information sciences	2,980	4,143	6,942	8,481	9,392	19.5	16.9	11.1	5.4
Education	111,487	98,380	75,821	75,473	82,238	-5.9	-5.7	-0.2	4.5
Engineering	15,239	16,358	20,735	22,658	24,541	3.7	6.7	4.6	4.2
Fine and applied arts	8,502	8,629	8,549	8,503	8,234	0.7	-0.2	-0.3	-1.6
Foreign languages	2,426	2,104	1,703	1,745	1,911	-6.6	-4.8	1.2	4.8
Health professions	15,485	16,515	17,062	18,421	19,255	3.3	0.8	4.0	2.3
Home economics	2,510	2,570	2,359	2,069	2,174	1.2	-2.1	-6.1	2.5
Law	1,647	1,832	1,774	1,944	2,098	5.6	-0.8	4.8	4.0
Letters	8,883	8,301	6,920	7,234	7,882	-3.3	-4.2	2.3	4.5
Library science	6,396	4,859	3,846	3,814	3,940	-12.0	-5.2	-0.4	1.7
Life sciences	6,831	5,978	5,010	4,950	4,933	-6.2	-4.0	-0.6	-0.2
Mathematics	3,033	2,565	2,831	3,319	3,424	-7.7	2.6	8.6	1.6
Military sciences	0	0	50	119	0	---	---	69.0	---
Physical sciences	5,406	5,227	5,675	5,630	5,737	-1.7	2.1	-0.4	1.0
Psychology	8,730	7,998	8,379	8,124	8,579	-4.2	1.2	-1.5	2.8
Public affairs and services	20,546	20,074	17,130	18,523	19,434	-1.1	-3.7	4.1	2.5
Social sciences	12,887	11,917	10,223	10,395	10,854	-3.8	-3.6	0.8	2.2
Theology	3,398	3,728	3,894	4,841	4,625	4.9	1.1	12.2	-2.2
Interdisciplinary studies	4,553	4,485	3,489	4,164	4,633	-0.7	-5.6	9.7	5.6
Doctor's degrees, total	32,664	32,839	32,307	34,033	35,692	0.3	-0.4	2.7	2.4
Agriculture and natural resources	950	1,067	1,216	1,048	1,184	6.2	3.5	-6.9	6.5
Architecture and environmental design	96	93	89	92	86	-1.6	-1.1	1.7	-3.3
Area and ethnic studies	133	157	134	132	110	9.0	-3.7	-0.7	-8.3
Business and management	863	844	849	1,094	1,150	-1.1	0.1	14.4	2.6
Communications	192	182	219	280	248	-2.6	5.1	13.9	-5.7
Computer and information sciences	236	252	240	374	538	3.4	-1.2	27.9	21.9
Education	7,731	7,900	7,032	6,909	6,783	1.1	-2.7	-0.9	-0.9
Engineering	2,491	2,551	3,174	3,818	4,533	1.2	6.1	10.1	9.4
Fine and applied arts	700	654	672	791	755	-3.3	0.7	8.9	-2.3
Foreign languages	641	588	424	441	422	-4.1	-7.0	2.0	-2.2
Health professions	718	842	1,172	1,213	1,439	8.6	9.8	1.7	9.3
Home economics	219	247	276	297	263	6.4	2.9	3.8	-5.7
Law	46	60	89	120	76	15.2	12.1	17.4	-18.3
Letters	1,924	1,790	1,666	1,601	1,702	-3.5	-1.7	-2.0	3.2
Library science	70	71	83	57	61	0.7	4.2	-15.7	3.5
Life sciences	3,542	3,718	3,354	3,417	3,533	2.5	-2.4	0.9	1.7
Mathematics	730	728	686	723	882	-0.1	-1.4	2.7	11.0
Military sciences	0	0	0	0	0	---	---	---	---
Physical sciences	3,102	3,140	3,382	3,671	3,852	0.6	1.9	4.3	2.5
Psychology	2,662	2,955	2,864	3,056	3,263	5.5	-0.8	3.4	3.4
Public affairs and services	368	433	444	449	480	8.8	0.6	0.6	3.5
Social sciences	3,360	3,119	2,828	2,915	2,878	-3.6	-2.3	1.5	-0.6
Theology	1,181	1,169	1,090	1,230	1,165	-0.5	-1.7	6.4	-2.6
Interdisciplinary studies	709	279	324	305	289	-30.3	4.0	-2.9	-2.6

SOURCE: U.S. Department of Education, Office for Civil Rights, "Data on Earned Degrees Conferred by Institutions of Higher Education by Race, Ethnicity, and Sex," various years; and National Center for Education Statistics, Higher Education General Information Survey, various years, and Integrated Postsecondary Education Data System, various years.

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